




# Will Epperson

I'm a Ph.D. student in the HCII at CMU advised by Adam Perer and Dominik Moritz.

My research interests lie in **developing ways to make complex systems easier to use and understand for non-experts**. Specifically, I am working to enable *interpretable Machine Learning*, often through *interactive visualizations*. I'm also interested in how machine learning can be applied to the medical domain to help both doctors and patient experiences.

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 CV PDF

 @w\_epperson  
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 Google Scholar  
 LinkedIn

## Education

August 2020 - Present

### Ph.D. in Human Computer Interaction

Carnegie Mellon University

Advisor: Dominik Moritz, Co-advisor: Adam Perer

August 2016 — May 2020

### B.S. in Computer Science

Georgia Institute of Technology

GPA: 4.0, Summa Cum Laude, threads in Intelligence and Modeling/Simulation

## Publications

### FairVis: Visual Analytics for Discovering Intersectional Bias in Machine Learning

Angel Cabrera, Will Epperson, Fred Hohman, Minsuk Kahng, Jamie Morgenstern, Duen Horng (Polo) Chau

*IEEE Conference on Visual Analytics Science and Technology (VAST). Vancouver, Canada, 2019.*

 Project  Demo  PDF  Blog  Recording  Slides  Code  BibTeX

### RECAST: Interactive Auditing of Automatic Toxicity Detection Models

Austin P. Wright, Omar Shaikh, Haekyu Park, Will Epperson, Muhammed Ahmed, Stephane Pinel, Diyi Yang, Duen Horng (Polo) Chau

*The eighth International Workshop of Chinese CHI. 2020.*

 Project  PDF  BibTeX

## Talks

### FairVis

May 2019

IEEE Visualization Conference

## Honors and Awards

2019

PURA: President's Undergraduate Research Award

\$1500 research grant to continue work on FairVis project

2016

Stamps President's Scholarship

Full ride scholarship given to 40 incoming freshman at Georgia Tech

# Research Experience

January 2019 - May 2020

**Georgia Institute of Technology**, Atlanta, GA

*Undergraduate Researcher, Polo Club of Data Science*

Advisor: Duen Horng (Polo) Chau

Member of the Polo Club of Data Science working on novel data visualizations to find fairness issues in Machine Learning models

January 2018 - May 2019

**Georgia Institute of Technology**, Atlanta, GA

*Undergraduate Researcher, Automated Algorithm Design*

Advisor: Jason Zutty, Greg Rohling

Worked on EMAD algorithm design engine to implement sentiment analysis pipeline to analyze news articles to aid in predicting stock price movements using genetic algorithms. Led project to visualize the genetic algorithm evolution process.

# Industry Experience

Summer 2019

**Point72 Asset Management**, New York, NY

*Data Analytics Intern, Market Intelligence Group*

Mentor: Trevor Rempel

Worked as Data Scientist in alternative data space to clean, model, and understand large datasets

Summer 2018

**Ultimate Software**, Weston, FL

*Software Development Intern, Innovation Strategies Team*

Mentor: Joseph Cutrono

Designed and developed Slack app to integrate with the UltiPro HR management tool. App published to Slack app store.

# Teaching

August 2017 - December 2018

**Undergraduate Teaching Assistant**

*Georgia Institute of Technology, Atlanta, GA*

Intro to Database Systems (CS 4400), Instructor: Monica Sweat

Designed projects, held office hours and graded for relational databases class.

# Leadership & Activities

January 2019 - May 2020

**Student Ambassador**

*Georgia Institute of Technology Alumni Association*

Serve as official representative of the Institute at events/tours for alumni, prospective students, and special guests.

January 2018 - May 2019

**Executive Board Member -- Threads Co-chair**

*Stamps Scholars National Convention 2019*

Executive board member of Stamps Scholars National Convention, a 3-day conference with over 700 student attendees. Responsible for 20-person committee that plans and coordinates the different content threads of the convention.